TriLink BIOTECHNOLOGIES
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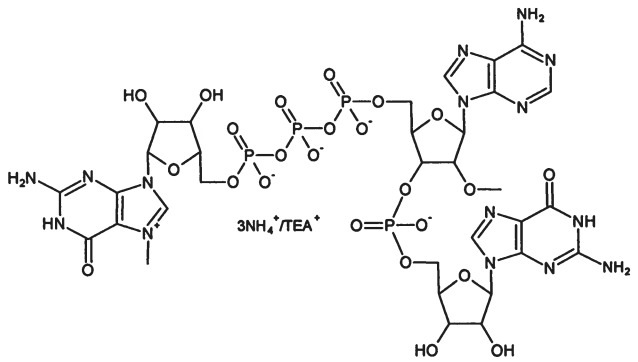
Certificate of Analysis

CleanCap™ AG

N-7113



CleanCap™ Reagent AG

Product Information

Catalog # (Pack Size): N-7113-1 (1 umole)
N-7113-5 (5 umole)
N-7113-10 (10 umole)
N-7113-100 (100 umole)
N-7113-BK (Bulk amount)

Packaged As: 100 mM in H_2O

Recommended Storage: -20°C or below

Manufacturing Lot #: T1-CHM01A

Packaging Lot #: T1-CHM01A-2

Extinction Coefficient: 30,539 $Lmol^{-1}cm^{-1}$ @ 255 nm

Molecular Weight: 1145.6 g/mole (free acid)

Molecular Formula: $C_{32}H_{43}N_{15}O_{24}P_4$ (free acid)

Final Salt Form: TEA^+/NH_4^+

Handling: Avoid repeated freeze/thaw cycles. Upon first use, it is recommended to aliquot sample into single use portions.

QC Analysis

	Method of Analysis:	Results:
Manufacturing Lot:	AX-HPLC	Passes
	^{31}P NMR	Passes
	^{1}H NMR	Passes
	Mass Spec	Passes
	UV-Spec	Passes
Packaging Lot:	AX-HPLC	Passes

QA Approval

Approved By: GAAgnimo
QA

12/20/2017
Date

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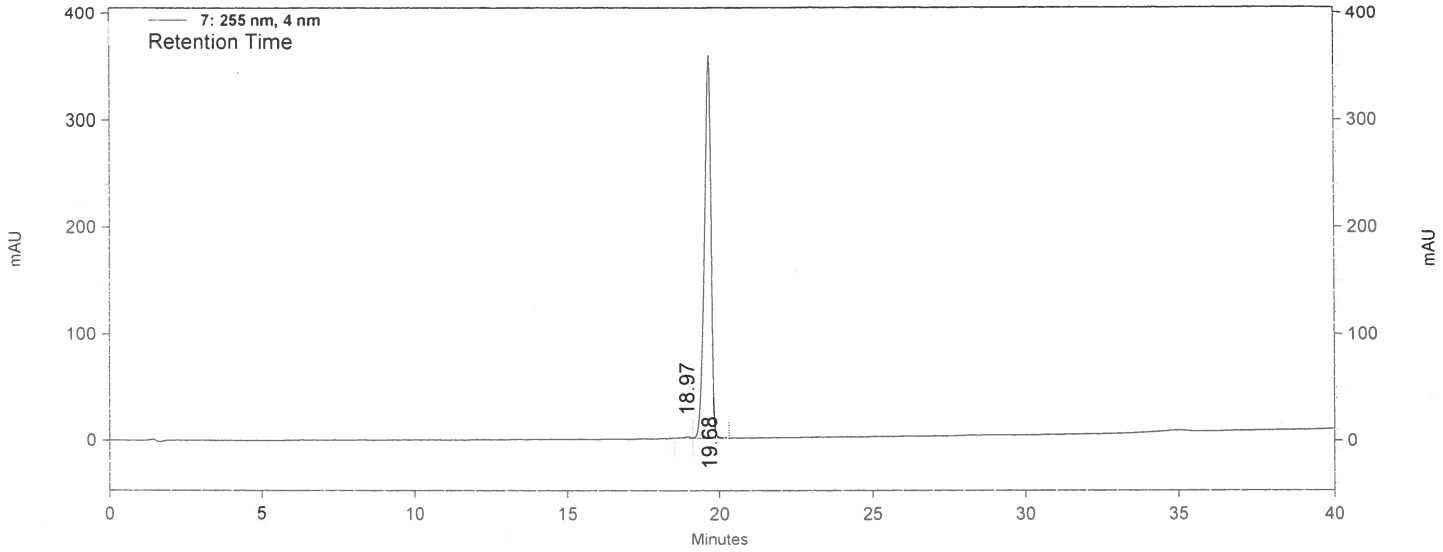
AX-HPLC : QTP-2023 Revision: 002

Final Data
Released By: V.H
Date: 12/14/17

Sample ID : N-7113 T1-CHM01A-2
Injection : 15 µL
Acquired : 12/13/2017 7:32:38 PM

C:\32Karat\Projects\Default\Data\QCE 1217-0075.dat



7: 255 nm, 4 nm Results

Retention Time	Area	Area Percent
18.97	22533	0.42
19.68	5321348	99.58
Totals	5343881	100.00